

# Nylene® 406F

Polyamide 6  
Custom Resins Group

Message:

Resin formulated to comply with FDA regulation 21CFR 177.1500 for food contact applications, and ANSI/NSF Standard 14  
General purpose, fast cycling molding resin  
Crystallization initiators provide fast molding cycles through rapid melt set-up  
Parts molded from 406F have better dimensional stability at moisture equilibrium than parts molded from conventional nylon

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	General Purpose		
	Good Dimensional Stability		
Uses	General Purpose		
Agency Ratings	FDA 21 CFR 177.1500		
	NSF 14		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	75.2	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	25	%	ASTM D638
Flexural Modulus (23°C)	2760	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	182	°C	
1.8 MPa, Unannealed	71.1	°C	
Peak Melting Temperature	216	°C	ASTM D3418

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